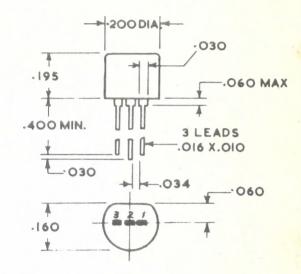
AMALGAMATED WIRELESS VALVE CO. PTY. LTD.



AS310 AS312

These units are n-p-n silicon planar epitaxial transistors in an epoxy package for A.F. and general purpose applications. The AS310 features low saturation voltage (less than 0.3 volt at I_C = 300 mA.

DIMENSIONAL OUTLINE



Dimensions in Inches
TERMINAL DIAGRAM

ABSOLUTE MAXIMUM RATINGS.

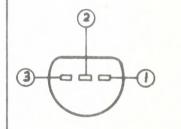
Collector-base voltage = 40 volts Collector-emitter voltage = 40 volts

(Base open)

Emitter-base voltage = 5 volts

Emitter current = 350 mA

Base current = 30 mA



Lead 1-Emitter
Lead 2-Base
Lead 3-Collector

THERMAL RATINGS.

Dissipation at case temperature up to 25°C ----- 700 mW max.

Derate linearly to zero at 135°C.

Dissipation in ambient temperatures up to 25°C ----- 300 mW max.

Derate linearly to zero at 135°C.

During soldering lead temperature must not exceed 255°C for 10 secs. max. within 1/16" of case.

Storage temperature range - 25°C to 135°C.

AS312

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
СВО	CB 1V		esta s	20	nA
ГСВО	V _{CB} = 25V	-	. A ve	100	nA
I _{EBO}	$V_{EB} = 2.5V$	13371		100	nA
V _{EBO}	I _B = 50 μ A	5	11.		V
V _{CEO}	$I_C = 10mA$	40			V
	$AS310 I_{C} = 300 \text{mA}, I_{B} = 15 \text{mA}$			300	mV
V _{CE} (sat.)	$\underline{\text{AS312}}$ $I_{\text{C}} = 100\text{mA}$, $I_{\text{D}} = 5$ mA			200	mV
V _{BE} (sat.)	$AS310 I_C = 300mA, I_B = 15mA$			1.5	V
V _{BE} (sat.)	$AS312 I_C = 100mA, I_B = 5 mA$			1.3	V
h _{FE}	$V_{CE} = 10V$, $I_{E} = 10$ mA	60		300	
	$V_{CE} = 10V$, $I_{E} = 10$ mA		175		MHz
	$V_{CE} = 6V, I_{E} = 0$		13	20	pF
R _{ӨЈ-С}			7	150	°C/W
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200 200 100 100 100 100 100 100 100 100	to acres at title.	7175		11 1	3 -
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,	thin 1/16 of case.			3-1-3	7

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